



CA-NV AWWA Water Loss Technical Assistance Program Wave 4 Water Audit Level 1 Validation Document

Water System Name: City of Huntington Park

Water System ID Number: 1910049

Water Audit Period: Calendar 2016

Water Audit & Water Loss Improvement Steps:

Steps taken in preceding year to increase data validity, reduce real loss and apparent loss as informed by the annual validated water audit:

Attended all Wave training. Began collecting data on production well annual calibration testing. Survey City facilities for installation of water meters. Initiated large meter change out program; researching feasibility of meter replacement policy. Upgrade SCADA system to effectively manage water system operation. System integration in progress. Discussing feasibility and procedure for a random meter testing policy. Registered for Water Loss Conference.

Certification Statement by Utility Executive:

This water loss audit report meets the requirements of California Code of Regulations Title 23, Division 2, Chapter 7 and the California Water Code Section 10608.34 and has been prepared in accordance with the method adopted by the American Water Works Association, as contained in their manual, *Water Audits and Loss Control Programs, Manual M36, Fourth Edition* and in the Free Water Audit Software version 5.

Utility Provided

Edgar P. Cisneros

City Manager

Executive Position

Edgar P. Cisneros

Signature

09/17/2017

Date

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Audit Information:

Utility: Huntington Park PWS ID: 1910049
System Type: Potable Audit Period: Calendar 2016
Utility Representation: Christina Dixon (Public works analyst), Daniel Hernandez (Public Works Director), Iris Ramos
Validation Date: 8/23/2017 Call Time: 2pm Sufficient Supporting Documents Provided: Yes

Validation Findings & Confirmation Statement:

Key Audit Metrics:

Data Validity Score: 63 Data Validity Band (Level): Band III (51-70)
ILI: 2.26 Real Loss: 24.79 (gal/conn/day) Apparent Loss: 9.74 (gal/conn/day)
Non-Revenue Water as a Percentage of Operation Costs: 3.1%

Validator Provided

Certification Statement by Validator:

This water loss audit report has been Level 1 validated per the requirements of California Code of Regulations Title 23, Division 2, Chapter 7 and the California Water Code Section 10608.34.

All recommendations on volume derivation and Data Validity Grades were incorporated into the water audit. ☒

Validator Information:

Water Audit Validator: Reinhard Sturm / Carolyn Prescott (support) Validator Qualifications: Contractor for CA-NV AWWA Water Loss TAP

AWWA Free Water Audit Software: System Attributes and Performance Indicators

WAS v5.0
American Water Works Association

Water Audit Report for: **City of Huntington Park**
Reporting Year: **2016** **1/2016 - 12/2016**

*** YOUR WATER AUDIT DATA VALIDITY SCORE IS: 63 out of 100 ***

System Attributes:

Apparent Losses:	60.082	acre-ft/yr
+ Real Losses:	152.905	acre-ft/yr
= Water Losses:	212.987	acre-ft/yr
? voidable Annual Real Losses (UARL):	67.55	acre-ft/yr
Annual cost of Apparent Losses:	\$65,168	
Annual cost of Real Losses:	\$83,806	

Valued at **Variable Production Cost**

Return to Reporting Worksheet to change this assumption

Performance Indicators:

Financial: { Non-revenue water as percent by volume of Water Supplied: 5.4%
Non-revenue water as percent by cost of operating system: 3.1% Real Losses valued at Variable Production Cost

Operational Efficiency: { Apparent Losses per service connection per day: 9.74 gallons/connection/day
Real Losses per service connection per day: 24.79 gallons/connection/day
Real Losses per length of main per day*: N/A
Real Losses per service connection per day per psi pressure: 0.45 gallons/connection/day/psi

From Above, Real Losses = Current Annual Real Losses (CARL): 152.91 acre-feet/year
? structure Leakage Index (ILI) [CARL/UARL]: 2.26

* This performance indicator applies for systems with a low service connection density of less than 32 service connections/mile of pipeline